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INDEX TO AMERICAN BOTANICAL LITERATURE

1916-1921

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Adams, J. F. Notes on plant diseases in Pennsylvania for 1916. Ann. Rep. Pennsylvania State Coll. **1916-17**: 329-336. *f.* 2-12. 1919.

André, H. Über die Ursachen des periodischen Dickenwachstums des Stammes. Zeitschr. Bot. **12**: 177-218. *pl.* 3, 4 + *f.* 1. 1920.
Among plants studied are species of *Nicotiana* and *Lantana*.

Arthur, J. C. New combinations for phanerogamic names. Torreyana **21**: 11, 12. F 1921.
9 combinations in various genera.

Arthur, J. C. Origin of potato rust. Science II. **53**: 228, 229. 11 Mr 1921.

Beauverd, G. Un nouveau *Mitracarpus* de l'Uruguay. Bull. Soc. Bot. Genève II. **12**: 14, 15. 31 Ja 1921.

Bequaert, J. On the dispersal by flies of the spores of certain mosses of the family Splachnaceae. Bryologist **24**: 1-4. 22 Mr 1921.

Bergman, H. F. The effect of cloudiness on the oxygen content of water and its significance in cranberry culture. Am. Jour. Bot. **8**: 50-58. *f.* 1-3. 9 Mr 1921.

- Bibb, L. B.** Summation of dissimilar stimuli applied to leaflets of sensitive brier (*Schrankia*). Jour. Gen. Physiol. **3**: 523-526. *f.* 1-3. 20 Mr 1921.
- Blake, S. F.** *Neomillsbaughia*, a new genus of Polygonaceae, with remarks on related genera. Bull. Torrey Club **48**: 77-88. *pl.* 1. 8 Mr 1921.
- [**Blakeslee, A. F.**] Inheritance of germinal peculiarities.—*Portulaca, Datura*. Carnegie Inst. Washington Year Book **19**: 130-132. 3 F 1921.
- Bödeker, F.** Die Blüte der *Mamillaria De Laetiana* Quehl. Monatsschr. Kakteenk. **27**: 21. Ja 1917.
- Bödeker, F.** Weitere Beobachtungen, Erfahrungen und Ansichten. Monatsschr. Kakteenk. **26**: 145-150. O 1916.
Discussion of the identity of various Cactaceae.
- Bödeker, F.** Nochmals weitere Beobachtungen, Erfahrungen und Ansichten. Monatsschr. Kakteenk. **27**: 1-6. Ja 1917. [Illust.]
Further discussion of various species of Cactaceae.
- Britten, J.** Thomas Walter (1740-88) and his grass. Jour. Bot. **59**: 69-75. Mr 1921.
- Britton, E. G.** The preservation of our native plants. Jour. New York Bot. Gard. **22**: 40-44. F 1921.
- Brooks, M. M.** Comparative studies on respiration, XV. The effect of bile salts and of saponin upon respiration. Jour. Gen. Physiol. **3**: 527-532. *f.* 1-3. 20 Mr 1921.
- Brown, J. P.** *Catalpa speciosa* in den Vereinigten Staaten von Nordamerika. Mitt. Deutsch. Dend. Ges. **1920**: 80-95. *pl.* 17-20. 1920.
Compiled and brought together by A. Steffer.
- Buchholz, M.** Über die Wasserleitungsbahnen in den interkalaren Wachstumszonen monokotyl'er Sprosse. Flora **114**: 119-186. 1920.
Among plants studied is *Tradescantia virginica*.
- Cannon, W. A.** Effect of a diminished oxygen supply in the soil on the rate of the growth of roots. Carnegie Inst. Washington Year Book **19**: 59-61. 3 F 1921.
- Cannon, W. A.** Some structural features of the chlorophyll-bearing organs of perennials of South Australia. Carnegie Inst. Washington Year Book **19**: 80, 81. 3 F 1921.
- Cannon, W. A., & Free, E. E.** Anaerobic experiments with helium. Carnegie Inst. Washington Year Book **19**: 61, 62. 3 F 1921.
- Cannon, W. A., & Free, E. E.** Root adaptation to deficient soil aeration. Carnegie Inst. Washington Year Book **19**: 62. 3 F 1921.

- Chambers, W. H.** Studies in the physiology of the fungi.—XI. Bacterial inhibition by metabolic products. *Ann. Missouri Bot. Gard.* **7**: 249-289. *f.* 1-11. N 1920.
- Chancerel, L.** Flore forestiere du globe. Pp. 1-738. Paris. 1920.
- Chase, A.** The Linnaean concept of pearl millet. *Am. Jour. Bot.* **8**: 41-49. 9 Mr 1921.
- Chase, A.** The North American species of *Pennisetum*. *Contrib. U. S. Nat. Herb.* **22**: 209-234. *f.* 63-76. 1921.
Includes *P. prolificum*, sp. nov., from Mexico.
- Chodat, R.** Sur un nouveau *Cneorum*, le *Cneorum trimerum* (Urb.) Chod. *Bull. Soc. Bot. Genève II.* **12**: 23, 24. 31 Ja 1921.
Based upon *Cubincola trimera* Urb., of Cuba.
- Christensen, C., & Skottsberg, C.** The ferns of Easter Island. *Nat. Hist. Juan Fernandez & Easter Isl.* **2**: 47-53. *f.* 1-3. 1920.
Includes *Doodia paschalis*, sp. nov.
- Christensen, C., & Skottsberg, C.** The Pteridophyta of the Juan Fernandez Islands. *Nat. Hist. Juan Fernandez & Easter Isl.* **2**: 1-46. *pl.* 1-5 + *f.* 1-7. 1920.
Includes new species in *Trichomanes* (1), *Hymenophyllum* (1), and *Ophioglossum* (1).
- Church, A. H.** The somatic organization of the Phaeophyceae. *Bot. Mem. Oxford* **10**: 1-110. 1920.
- Clements, F. E.** Adaptation and mutation as a result of fire. *Carnegie Inst. Washington Year Book* **19**: 348, 349. 3 F 1921.
- Clements, F. E.** Biotic succession in Bad Lands. *Carnegie Inst. Washington Year Book* **19**: 362, 363. 3 F 1921.
- Clements, F. E.** Climax formations. *Carnegie Inst. Washington Year Book* **19**: 350. 3 F 1921.
- Clements, F. E.** Indicator plants. *Carnegie Inst. Washington Year Book* **19**: 363, 364. 3 F 1921.
- Clements, F. E. & E. S.** Changes in vegetation. *Carnegie Inst. Washington Year Book* **19**: 351-353. 3 F 1921.
- Clements, F. E., E. S., & Loftfield, G. V.** Periodicity of vegetation. *Carnegie Inst. Washington Year Book* **19**: 354, 355. 3 F 1921.
- Clements, F. E., E. S., & Loftfield, G. V.** Permanent quadrats. *Carnegie Inst. Washington Year Book* **19**: 359, 360. 3 F 1921.
- Clements, F. E., & Douglass, A. E.** Climatic cycles. *Carnegie Inst. Washington Year Book* **19**: 358, 359. 3 F 1921.
Study of *Sequoia*.

- Clements, F. E., & Hall, H. M.** Experimental taxonomy. Carnegie Inst. Washington Year Book **19**: 345, 346. 3 F 1921.
Observations of transplanted species.
- Clements, F. E., & Hall, H. M.** Taxonomic monographs. Carnegie Inst. Washington Year Book **19**: 346, 347. 3 F 1921.
Reports very briefly studies on *Artemisia*, *Chrysothamnus*, *Haplopappus* and *Atriplex*.
- Clements, F. E., & Long, F.** Experimental pollination. Carnegie Inst. Washington Year Book **19**: 349. 3 F 1921
- Clements, F. E., & Long, F.** Photosynthetic efficiency. Carnegie Inst. Washington Year Book **19**: 344, 345. 3 F 1921.
- Clements, F. E., & Weaver, J. E.** Transplant quadrats and areas. Carnegie Inst. Washington Year Book **19**: 355-357. 3 F 1921.
- Clute, W. N.** Botanizing in the Painted Desert [Arizona]. Am. Bot. **27**: 1-8. F 1921. [Illust.]
- Clute, W. N.** Plant partnerships. Gard. Chron. Am. **25**: 502, 503. Mr 1921.
- Coker, W. C.** Notes on the Thelephoraceae of North Carolina. Jour. Elisha Mitchell Sci. Soc. **36**: 146-196. *pl.* 14-35. F 1921.
Includes 1 new species in *Aleurodiscus*.
- Collins, J. F.** Three plants new to Rhode Island. Rhodora **23**: 27. 8 Mr 1921.
- Cooper, W. S.** Ecology of the strand vegetation of the Pacific Coast of North America. Carnegie Inst. Washington Year Book **19**: 79, 80. 3 F 1921.
- Cunningham, B.** A pure culture method for diatoms. Jour. Elisha Mitchell Sci. Soc. **36**: 123-126. *pl.* 9. F 1921.
- Cunningham, B.** The occurrence of unlike ends of the cells of a single filament of *Spirogyra*. Jour. Elisha Mitchell Sci. Soc. **36**: 127, 128. *pl.* 10. F 1921.
- Dahlgren, K. V.** Zur Embryologie der Kompositen mit besonderer Berücksichtigung der Endosperm-bildung. Zeitschr. Bot. **12**: 481-516. *f.* 1-56. 1920.
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- Duggar, B. M.** Salt requirements of seed plants. Carnegie Inst. Washington Year Book **19**: 66-68. 3 F 1921.
- Duggar, B. M.** The nutritive value of the food reserve in cotyledons. Ann. Missouri Bot. Gard. **7**: 291-298. *pl.* 7 + *f.* 1. N 1920.
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- Dutton, D. L.** *Buxbaumia indusiata* Brid., from Brandon, Vermont. Bryologist **24**: 8. 22 Mr 1921.
- East, E. M., & Jones, D. F.** Genetic studies on the protein content of maize. Genetics **5**: 543-610. f. 1-8. N 1920.
- Edgerton, C. W., & Moreland, C. C.** Eggplant blight. Louisiana Agr. Exp. Sta. Bull. **178**: 1-44. f. 1-18. Ja 1921.
- Fernald, M. L.** The North American representatives of *Scirpus cespitosus*. Rhodora **23**: 22-25. 8 Mr 1921.
Includes *Scirpus cespitosus* var. *delicatulus* var. nov. from Newfoundland and Maine.
- Fischer, J.** Zur Entwicklungsgeschichte und Morphologie der Veronicablüte. Zeitschr. Bot. **12**: 113-161. f. 1-23. 1920.
- Fries, R. E.** Die Myxomyceten der Juan Fernandez Inseln. Nat. Hist. Juan Fernandez & Easter Isl. **2**: 55-58. 1920.
- Frye, T. C.** Plant migration along a partly drained lake. Publ. Puget Sound Biol. Sta. **2**: 393-397. 30 D 1920.
- Gericke, W. F.** Influence of temperature on the relations between nutrient salt proportions and the early growth of wheat. Am. Jour. Bot. **8**: 59-62. 19 Mr 1921.
- Grier, N. M.** Notes on *Hemerocallis*, II. Torreya **21**: 12, 13. F 1921.
- Gundersen, A.** Plant families: a plea for an international sequence. New Phytol. **19**: 264-271. 31 Ja 1921.
- Haan, H. R. M. de.** Contribution to the knowledge of the morphological value and the phylogeny of the ovule and its integuments. Recueil Trav. Bot. Néerlandais **17**: 219-324. 1920.
- Hall, H. M.** Statistical studies. Carnegie Inst. Washington Year Book **19**: 348. 3 F 1921.
Studied *Artemisia* and *Chrysothamnus*.
- Hall, H. M.** Taxonomy of the Madieae. Carnegie Inst. Washington Year Book **19**: 347. 3 F 1921.
Notes progress of work.
- Hall, H. M., & Long, F.** Rubber plants. Carnegie Inst. Washington Year Book **19**: 365, 366. 3 F 1921.
- Hansen, A. A.** Our disappearing wild plants. Science II. **53**: 178-180. 25 F 1921.
Discusses flora of District of Columbia.
- Hansen, A. A.** Recent Pennsylvania weeds. Ann. Rep. Pennsylvania State Coll. **1916-17**: 317-328. 1919. [Illust.]

- Harms, H.** Über einige brasilianische *Lupinus*-Arten mit einfachen Blättern. Repert. Spec. Nov. Regn. Veg. **17**: 4, 5. 1 Ja 1921.
Includes *L. Sellowianus*, sp. nov.
- Harris, J. A.** Studies on the physico-chemical properties of vegetable saps. Carnegie Inst. Washington Year Book **19**: 142, 143. 3 F 1921.
- Harris, J. A., Sinnott, E. W., Pennypacker, J. Y., & Durham, G. B.** The vascular anatomy of dimerous and trimerous seedlings of *Phaseolus vulgaris*. Am. Jour. Bot. **8**: 63-102. f. 1-23. 19 Mr 1921.
- Harter, L. L.** Amylase of *Rhizopus Tritici*, with a consideration of its secretion and action. Jour. Agr. Research **20**: 761-786. 15 F 1921.
- Heimerl, A.** Nyctaginaceae novae. Repert. Spec. Nov. Regn. Veg. **17**: 1-3. 1 Ja 1921.
Includes *Pisonia Broadwayana*, sp. nov., from Tobago.
- Herzog, T.** Die Bryophyten meiner zweiten Reise durch Bolivia. Nachtrag. Bibl. Bot. **88**: 1-31. f. 1-19. 1921.
Includes 26 new species.
- Inman, O. L.** Comparative studies on respiration.—XVI. Effects of hypotonic and hypertonic solutions upon respiration. Jour. Gen. Physiol. **3**: 533-537. f. 1, 2. 20 Mr 1921.
- Jagger, I. C.** A transmissible mosaic disease of lettuce. Jour. Agr. Research **20**: 737-740. pl. 87. 15 F 1921.
- Kempton, J. H.** A brachytic variation in maize. U. S. Dept. Agr. Farmers' Bull. 925: 1-28. pl. 1-19 + f. 1-8. 18 F 1921.
- Kidder, N. T.** Additions to the flora of Isle au Haut [Maine]. Rhodora **23**: 26. 8 Mr 1921.
- Kränzlin, F.** Bignoniaceae novae. Repert. Spec. Nov. Regn. Veg. **17**: 18-22. 1 Ja 1921.
Includes 4 new American species of *Arrabidaea*.
- Lee, H. A., & Scott, L. B.** Are Valencia oranges from China? Jour. Hered. **11**: 329-333. f. 20-22. 23 Mr 1921.
- Lemoine, [Mme. Paul].** Botanische Ergebnisse der schwedischen Expedition nach Patagonien und dem Feuerlande 1907-1909. VII. Les Melobésiées. Kungl. Svenska Vetensk. Handl. **61**, no. 4: 1-17. pl. 1 + f. 1, 2. 1920.
Includes new species in *Lithothamnium* (2) and *Lithophyllum* (4).
- Lendner, A.** Un champignon parasite sur une Lauracée du genre *Ocotea*. Bull. Soc. Bot. Genève II. **12**: 122-128. f. 1, 2. 31 Ja 1921.
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